

XPM5- ν i SERIES

High Performance Pressure Transducer



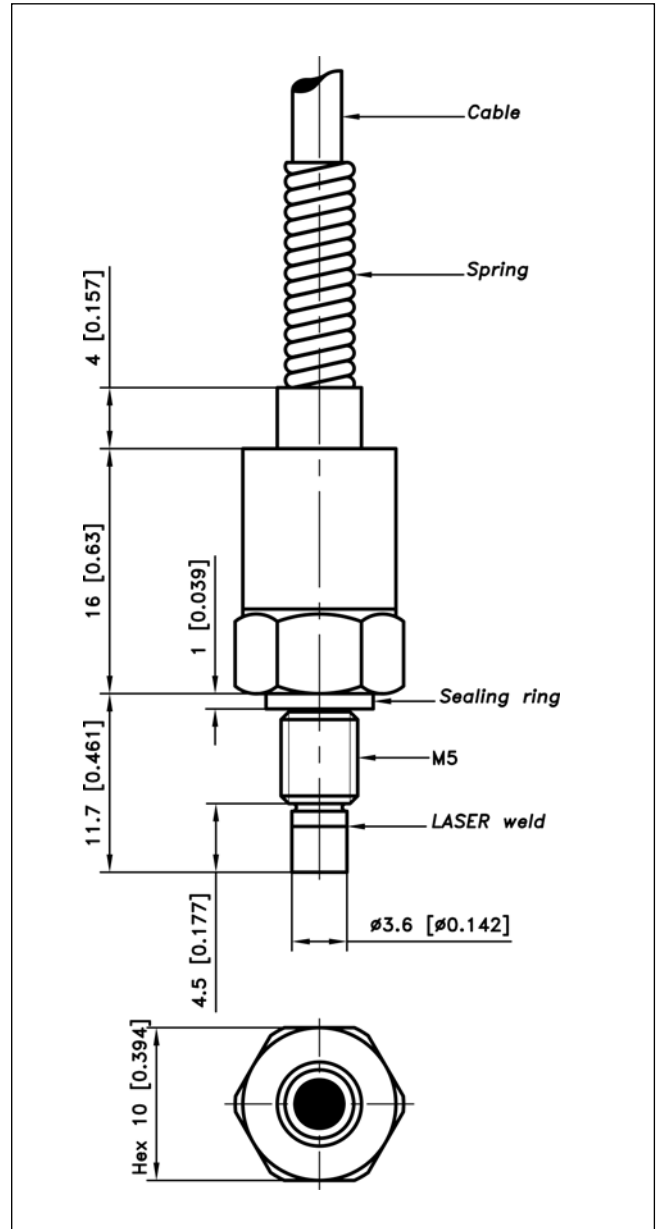
- High Accuracy and Stability
- Temperature Range -40 to 120 °C [-40 to 248 °F]
- High Level Analogue Output
- Full Scale Range : 5 to 350 bar [75 to 5000 psi]
- Flush Diaphragm, All-Titanium Construction
- Low Installation Torque Sensitivity
- M5 Threading

The XPM5- ν i represents a new series of pressure transducers combining piezoresistive sensor technology and digital temperature compensation, providing superior performance and excellent long-term stability over a temperature range of -40 to 120 °C [-40 to 248 °F].

The all-titanium construction and flush diaphragm allow the sensors to withstand most corrosive liquids. Available measurement ranges vary from 5 bar [75 psi] up to 350 bar [5000 psi].

Incorporating FGP Sensors ν i technology, the sensor features high level analogue signal output and offers a cost-effective solution for the most demanding applications.

Consult FGP's Engineering Department if the standard options do not meet your needs or should your application require a more comprehensive measurement system.



Technical Specifications

Range (F. S.)

0-5	0-10	0-20	0-35	0-50	0-100	0-200	0-350	bar	in gauge, sealed gauge
0-75	0-150	0-300	0-500	0-750	0-1500	0-3000	0-5000	psi	or absolute reference

Performance Characteristics

Combined Non-Linearity & Hysteresis : **<±0.25% F.S. (<±0.35% F.S. for ≤10bar model)**

Repeatability : ±0.2% F.S.

Zero Shift in CTR : **<0.5% F.S. / 60 °C [108 °F]**

Sensitivity Shift in CTR : <2% of reading / 60 °C [108 °F]

Operating Temperature Range (OTR) : -40 to 125 °C [-40 to 257 °F]

Compensated Temperature Range (CTR) : **-40 to 120 °C [-40 to 248 °F]**

Save Overload : 2 x F.S.

Ultimate Pressure : 5 x F.S.

Bandwidth ±1% : 100 Hz

Electrical Characteristics

Supply Voltage	8 to 16 Vdc (polarity inversion protection)
F.S. Output	4 V ±2% F.S.
Zero Offset	0.5 V ±2% F.S.
Consumption	<20 mA
Output Impedance	<10 Ω
Insulation under 50 Vdc	≥100 MΩ

Electrical Termination

Shielded cable, 3 Teflon wires (AWG30), standard length 2.0 m [6.6 ft] with strain relief spring

Tightening Torque

Nominal : 5 N.m [44 lb-in] (zero and sensitivity shift <1%)

Maximal : 10 N.m [88 lb-in]

Mechanical Characteristics

Material : Body and flush diaphragm in titanium, laser welded

Pressure port : M5

Self centered sealing ring

Protection Index : IP 50

Product References

High Level Output Transducer

Model

Full Scale Range (F.S.)

In bar G (gauge), S (sealed gauge), A (absolute)

Option(s)

P5 : IP65 protection

P7 : IP67 protection

LC"X" : Additional cable length in ft (front of module)

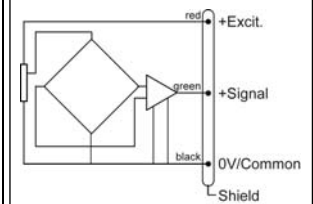
XPM5-*i*

350G

LC2

"X" = Custom value

Wiring Schematic



All specifications are nominal and subject to change without notice. Current specifications see web-site. October 29, 2007

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